Appendix A. Evidence tables

	Purpose,	Study size;	Intervn.	Control group	Outcome assessed,	Results
Ι	Design	population	group		instruments	
Trachtenberg et al.; 2002 effe abar vers treat with leup bica in m pros cand cont two (2:1 blin mul	aluate the elect of arelix rsus atment th approlide + calutamide men with ostate alutamide men with ostate alutamided, o arms 1), non-inded, alticenter inited alutes)	N= 255 Inclusion: >18y/o; prostate CA; stage D1 (TxN+Mx) or D2 (TxNxM+), increasing PSA after definitive localized therapy; candidate for neoadjuvant Rx (w/ local or regional disease); candidate for initial course of intermittent hormonal Rx Exclusion: severe bone pain, spinal cord compression, bilateral hydronephrosis, bladder neck obstruction; prior hormonal therapy (except neoadjuvant)	N=170 Abarelix: open label injectable suspension 100 mg (IM) on days 1, 15 (abarelix only), 29, 57, 86, 113, 141 Age range: 51-97, mean 73; Rx duration: 24 weeks Baseline testosterone: 119-738, median 341 97% abarelix patients completed treatment to day 85	N=85 Leuprolide + bicalutamide (combined): open label leuprolide acetate 7.5 mg (IM) on days 1, 29, 57, 86, 113, 141 plus 50mg bicalutamide (oral) daily starting on day 1 Age range: 49-93, mean 74 Baseline testosterone: 149-787, median 353 94% combination pts. completed treatment to day 85	Primary end-points: % of patients w/ testosterone>110% of baseline during wk 1 (testosterone surge days 2, 4, and 8); % of pts castrate on day 8; % of pts. maintaining medical castration from days 29 to 85. DHT, FSH, LH and PSA levels assessed at various points Adverse events, allergic reactions, hematological and chemical abnormalities	No patient w/abarelix experienced testosterone surge; 86 % of pts. w/ combination therapy had increased testosterone levels during week 1 (p<0.001) 68% of abarelix patients were medically castrated on day 8, vs 0% of control patients (statistical significance not reported); by day 15, 71% of abarelix and 21% of combination patients were castrate. >95% of patients were castrate in both groups on day 29. Achievement and maintenance of castration at day 85 was 92.9% and 95.2% for the abarelix and combination groups respectively. Median percent PSA reduction was similar during the initial 4 wks. (day 15 and day 29). All pts. in both groups had 50% reduction in median PSA compared with baseline on day 169 Safety: overall incidence of adverse events was 93% in abarelix and 95% in combination group; allergic events were observed with similar incidence in both groups but urticaria and pruritus were reported as serious and definitely related to abarelix

Author, Year	Purpose,	Study size;	Intervn.	Control group	Outcome assessed,	Results
	Design	population	group		instruments	
McLeod D et	Evaluate the	N= 269	N=180	N=89	Primary outcome	98% abarelix and 95% leuprolide acetate
al; 2001	effect of				measures: avoidance	patients completed treatment to day 85
	abarelix	Inclusion: >18 y/o	Abarelix: IM	Leuprolide	of testosterone	
	versus	prostate CA,	injections of	acetate	surge; castration on	Significantly more leuprolide patients
	treatment	candidate for	abarelix	7.5 mg;	day 8; achievement	experienced testosterone surge than abarelix
	with	neoadjuvant	injectable	injections on	and maintenance of	patients (82% vs. 0%, p<0.001)
	leuprolide	hormonal therapy;	suspension	days 1, 29, 57,	castration days 29-	
	acetate in	metastatic disease	100 mg	86, 113, 141	85	Significantly more abarelix patients achieved
	men with	(Stage D1 or D2);	injections on			medical castration on day 2, 4, and 8 than
	prostate	increasing PSA	days 1, 15			leuprolide patients (24%, 57%, and 72% vs.
	cancer	levels after radical	(abarelix		Assessment: days 2,	0% all three days, p<0.001)
		prostatectomy,	only), 29, 57,		4, and 8	
	Prospective,	radiation therapy,	86, 113, 141		(testosterone surge);	Medical castration at day 85 was achieved
	randomized	or other; serum			day 8 (rapidity of	and maintained by 91.7% of abarelix patients
	control	testosterone level	Age range: 49-		reduction in	and 95.5% of leuprolide patients (statistical
	(2:1), non-	between	88, median 73	Age range 49-	testosterone values);	significance not reported)
	blinded,	220ng/dL and 2		89, median 74	days 29-85	
	multicenter	times upper limit			(achievement of	The percentage change in PSA concentration
	(United	of normal			medical castration)	was significantly greater in abarelix patients
	States)				D.1100 EG11 1 1 1	than those on leuprolide on days 15
		Exclusion: severe			DHT, FSH, LH and	(p<0.001) and 29 (p=0.001) and was
		bone pain, spinal			PSA levels assessed	comparable in the two groups after day 29
		cord compression,			at various points	
		bilateral				Safety: overall incidence of adverse events
		hydronephrosis,			Adverse events,	was similar across groups; one event of
		bladder neck			allergic reactions,	allergic reaction and one event of increased
		obstruction; prior			clinical laboratory	transaminase were reported as serious and
		hormonal therapy			abnormalities	related to abarelix
		(except neoadjuv.)				

Author, Year	Purpose,	Study size;	Intervention	Control group	Outcome assessed,	Results
	Design	population	group		instruments	
Koch et al.;	Study the	N=81	IM injections	No active	Primary endpoints:	69/81 (85%) patients completed 168 days of
2003.	response to		of Abarelix:	controlled		treatment; two patients withdrew for allergic
	treatment	Eligibility: >18		group	Avoidance of	adverse events. One pt. Withdrew after day
	with	y/o men with	injectable		bilateral	169 following a severe allergic reaction
	abarelix of	bone pain from	suspension		orchiectomy through	
	81 men with	skeletal	100 mg on		the first 12 weeks of	Nine men at one site excluded from efficacy
	advanced	metastases,	days 15, 29,		treatment (through	evaluation for regulatory non-compliance.
	prostate	retroperitoneal	57, 85, 113,		days 29 and 85).	
	cancer	adenopathy	and 141 of a			Primary endpoints: 70/72 (97%) men
	symptoms in	causing ureteral	168-day		Pharmacodynamic	remained in the study and did not require
	an open	obstruction,	treatment		endocrine efficacy	orchiectomy through days 29 and 85.
	label, single	impending	period		and PSA levels	
	arm	neurologic				57/72 (79%) patients had values of 50 ng/dL
	(abarelix	compromise, or	Median age:		Secondary	or less on day 8; 88%, 96%, 97%, 93% of
	only)	an enlarged	73 y/o; range		endpoints:	patients achieved this level at days 15, 29,
	multicenter	prostate gland or	40 to 94 y/o.			85, and 169 respectively.
	study	pelvic mass			Change in bone pain	
		causing bladder	60/81 patients		intensity; imaging	PSA levels decreased 75% on average from
		neck outlet	were treated		and serologic	baseline on day 15 and continued to decrease
		obstruction.	for at least 24		parameters	through day 113.
			weeks			
		Exclusion:			Urinary tract	Supportive endpoints: Visual analog scale
		hormone-			obstruction, spinal	scores improved between baseline and day
		refractory disease;			chord compression	85 in the majority of the 36 patients with
		hormone therapy				bone-related pain completing this test.
		in prior 6 months.				
						Overall disease response rate was 88% and
						78% on days 85 and 169, respectively.
						Variable proportions of patients were no
						longer at risk of spinal chord compression, or
						required catheters, or had bladder neck
						obstruction at day 85 compared to baseline.
						Nine adverse events in 6/01/70/) of and
						Nine adverse events in 6/81 (7%) of patients were severe and treatment-related.
						were severe and treatment-related.